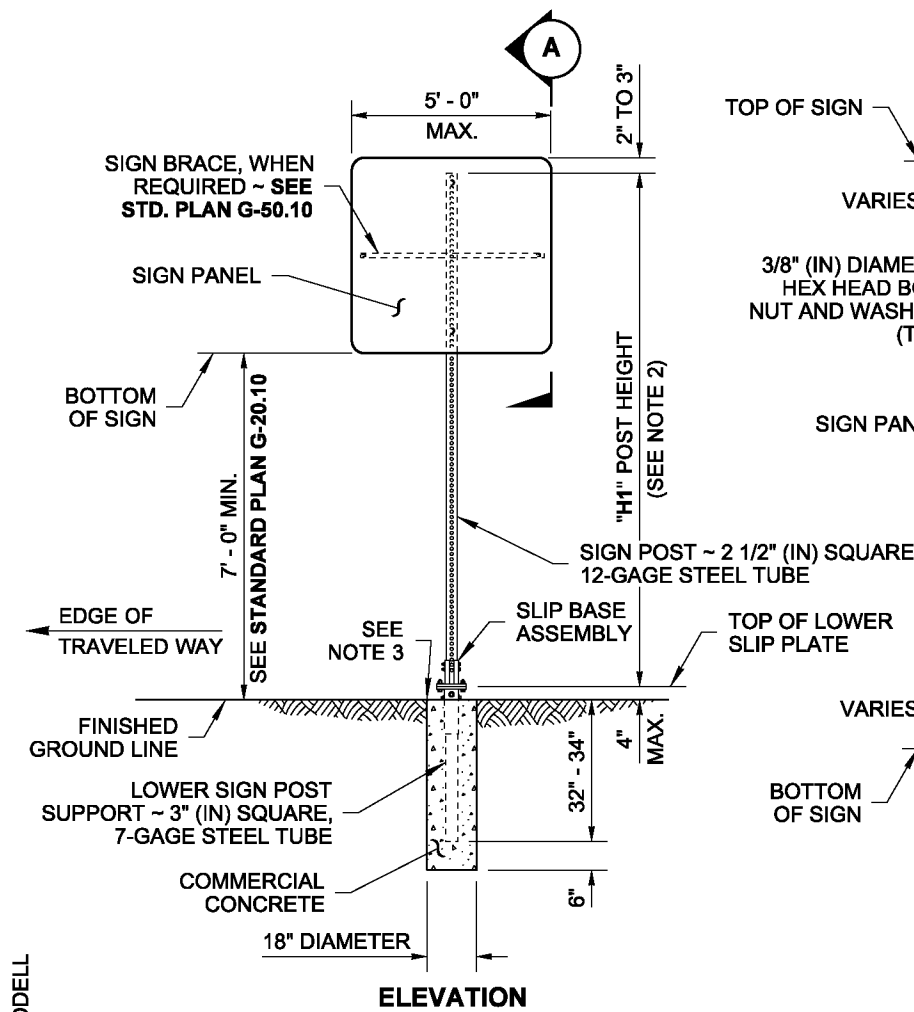
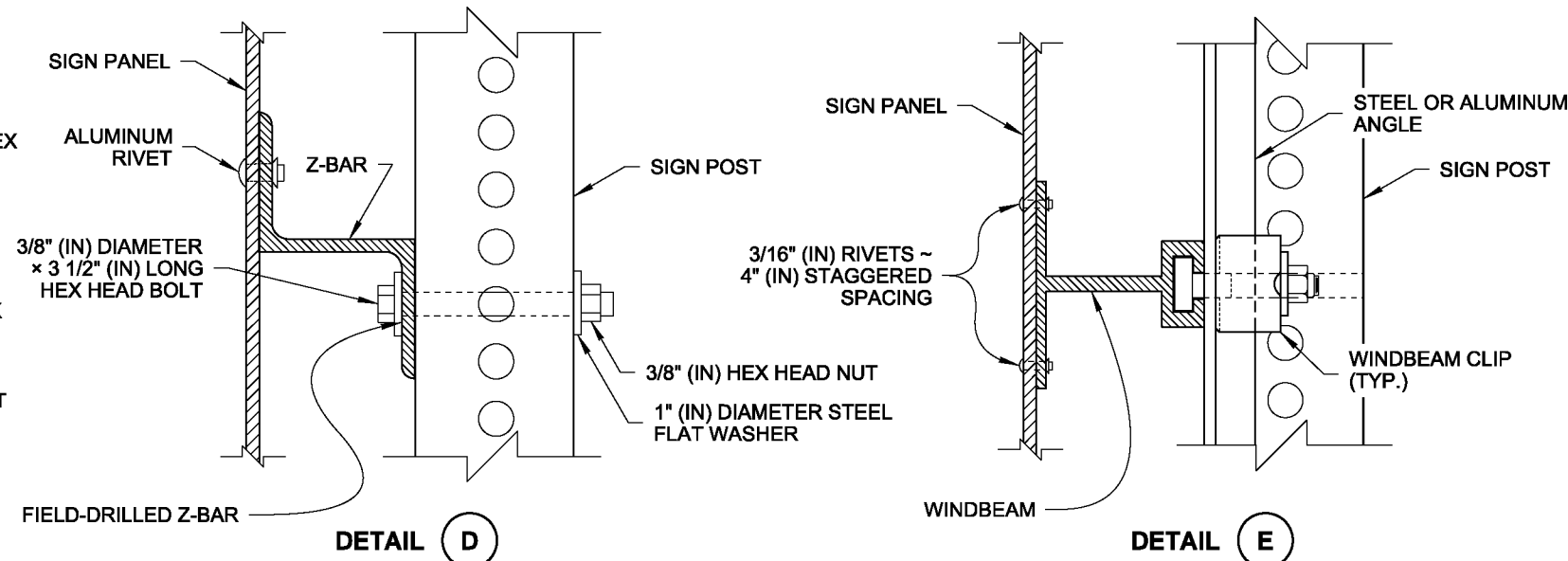
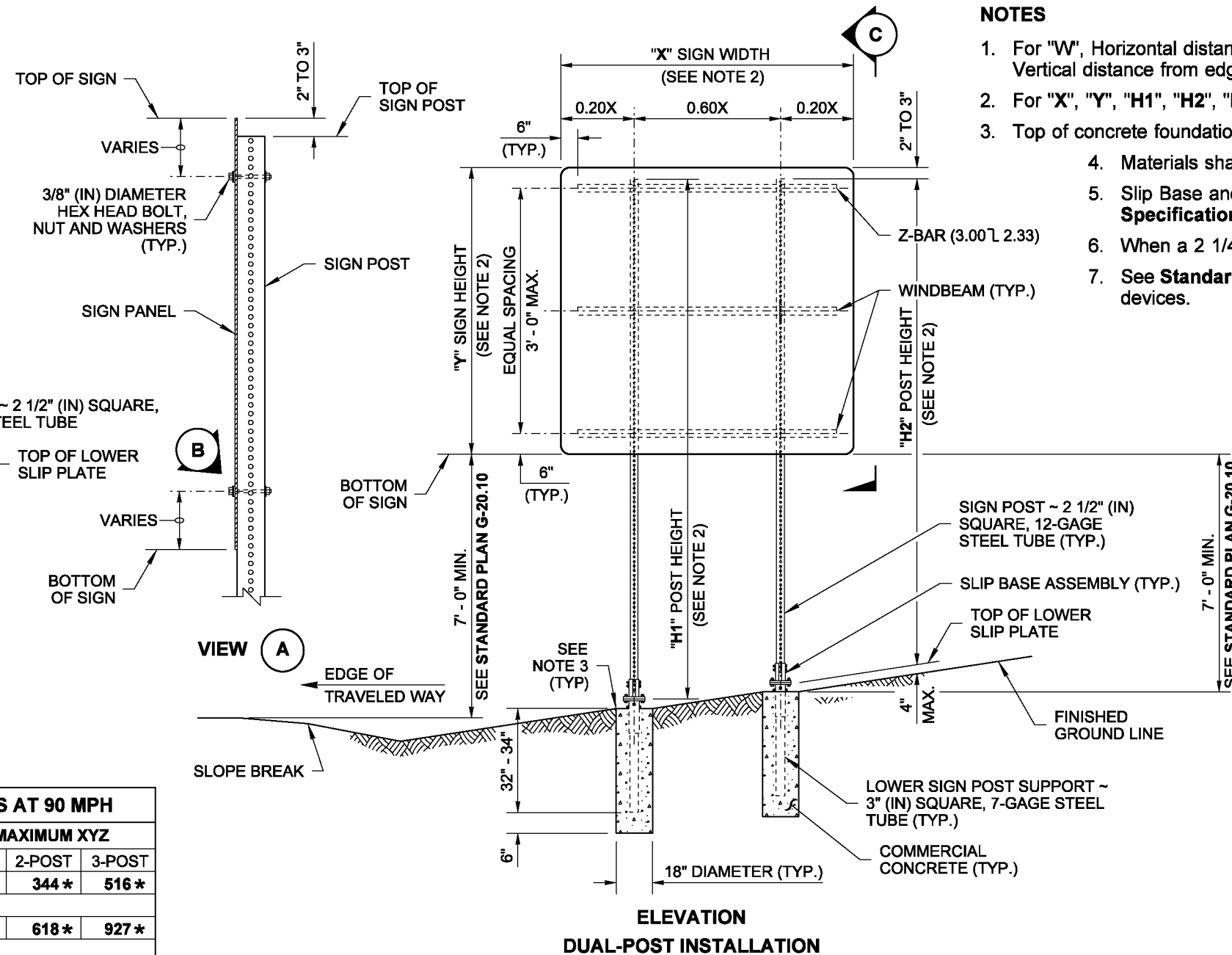
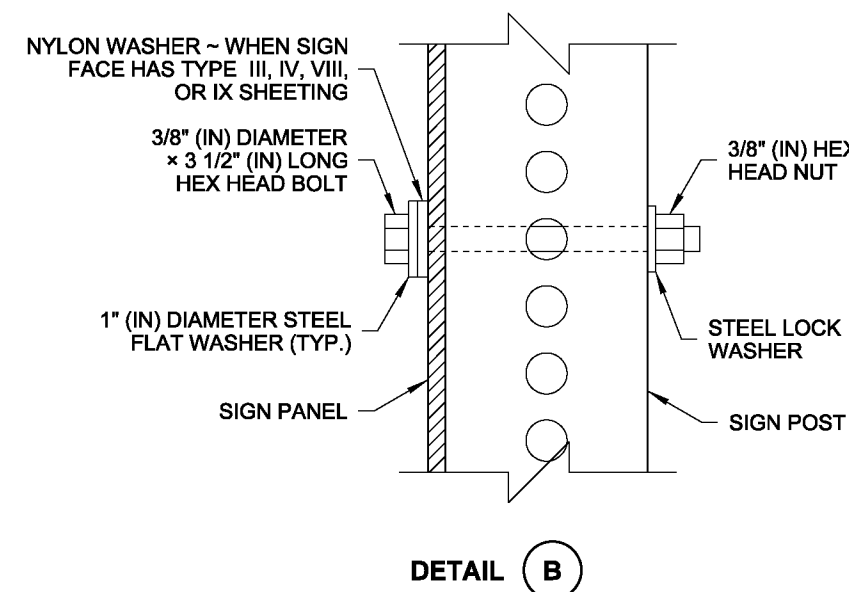


DRAWN BY: FERN LIDDELL



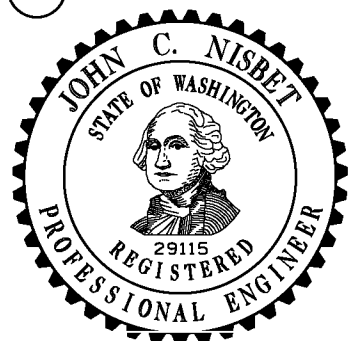
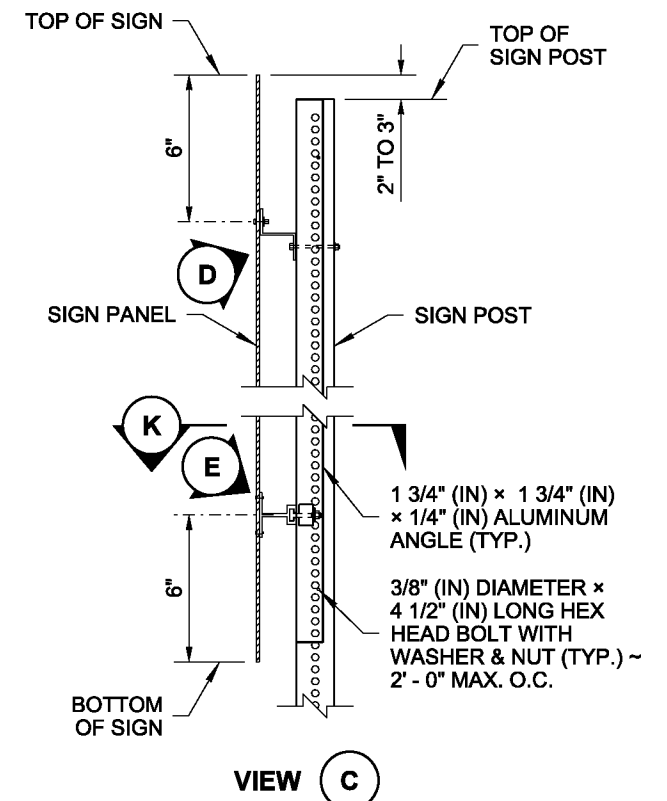
WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH				
POSTS		MAXIMUM XYZ		
		1-POST	2-POST	3-POST
2 1/2" PSST	12-GAGE	172	344 *	516 *
2 1/2" PSST with 2 1/4" insert	12-GAGE	309 *	618 *	927 *
(SEE NOTE 6)				
* SLIP BASE REQUIRED (UNLESS BEHIND BARRIER)				



STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 ~ 8" (IN)

#### NOTES

- For "W", Horizontal distance from edge of traveled way to center of nearest post, and "V", Vertical distance from edge of traveled way to bottom of sign, see **Standard Plan G-20.10**.
- For "X", "Y", "H1", "H2", "H3", and "H4", refer to the Sign Specification Sheet in the Contract.
- Top of concrete foundations shall be smooth, dense and uniform to finished groundline.
- Materials shall meet the requirements of **Standard Specification 9-28**.
- Slip Base and all other materials shall meet the requirements of **Standard Specification 9-06**.
- When a 2 1/4" (in) insert is used, the insert shall be a minimum of 7 feet.
- See **Standard Plan J-40.35** and Contract Plans for installations with electrical devices.



### STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-06

SHEET 1 OF 4 SHEETS

APPROVED FOR PUBLICATION

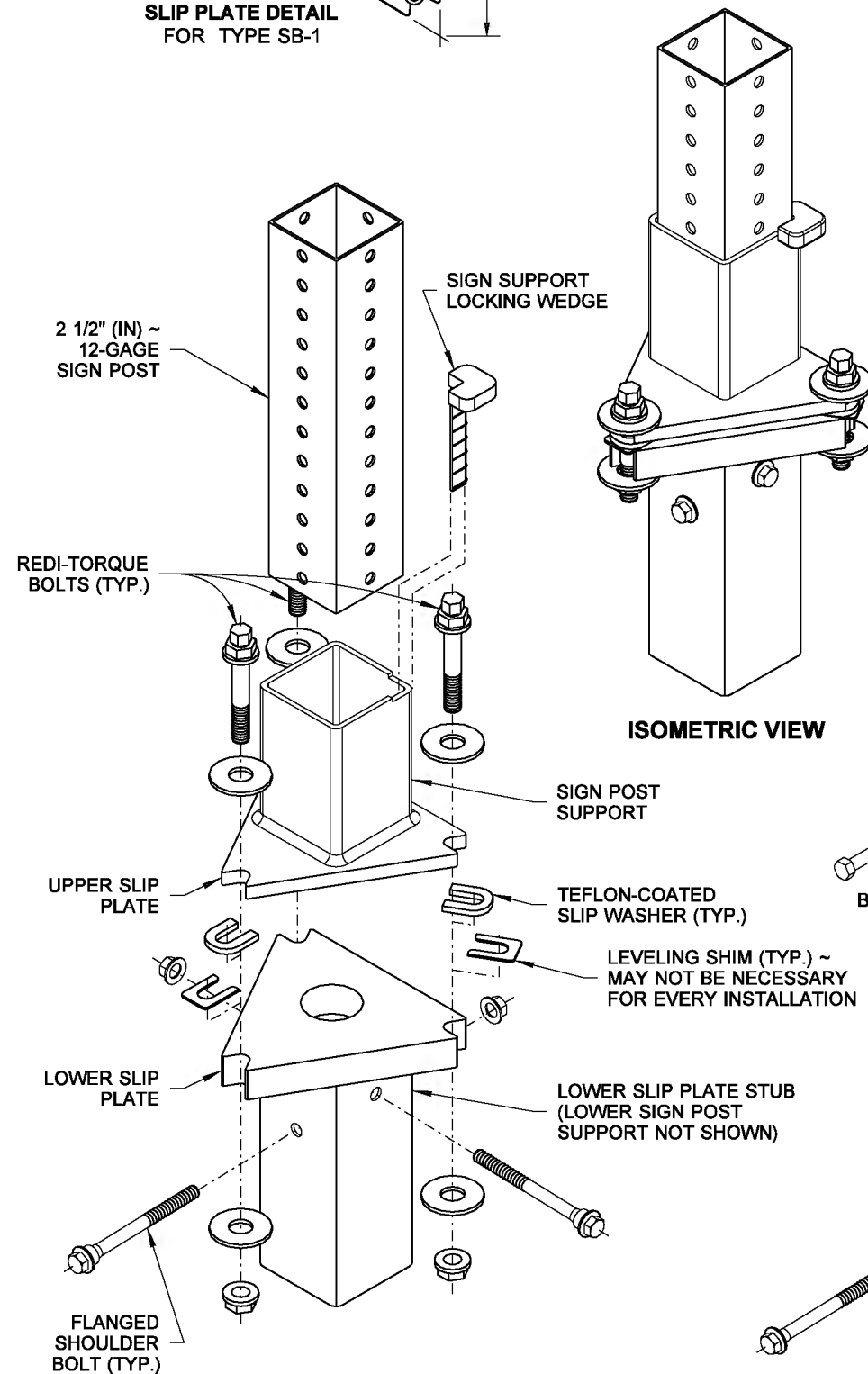
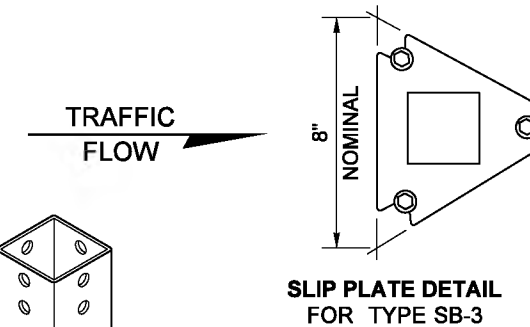
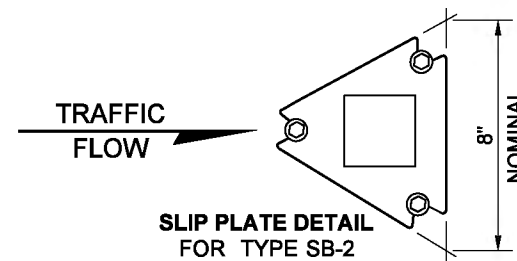
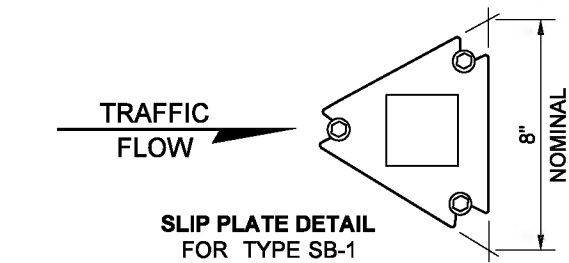


STATE DESIGN ENGINEER

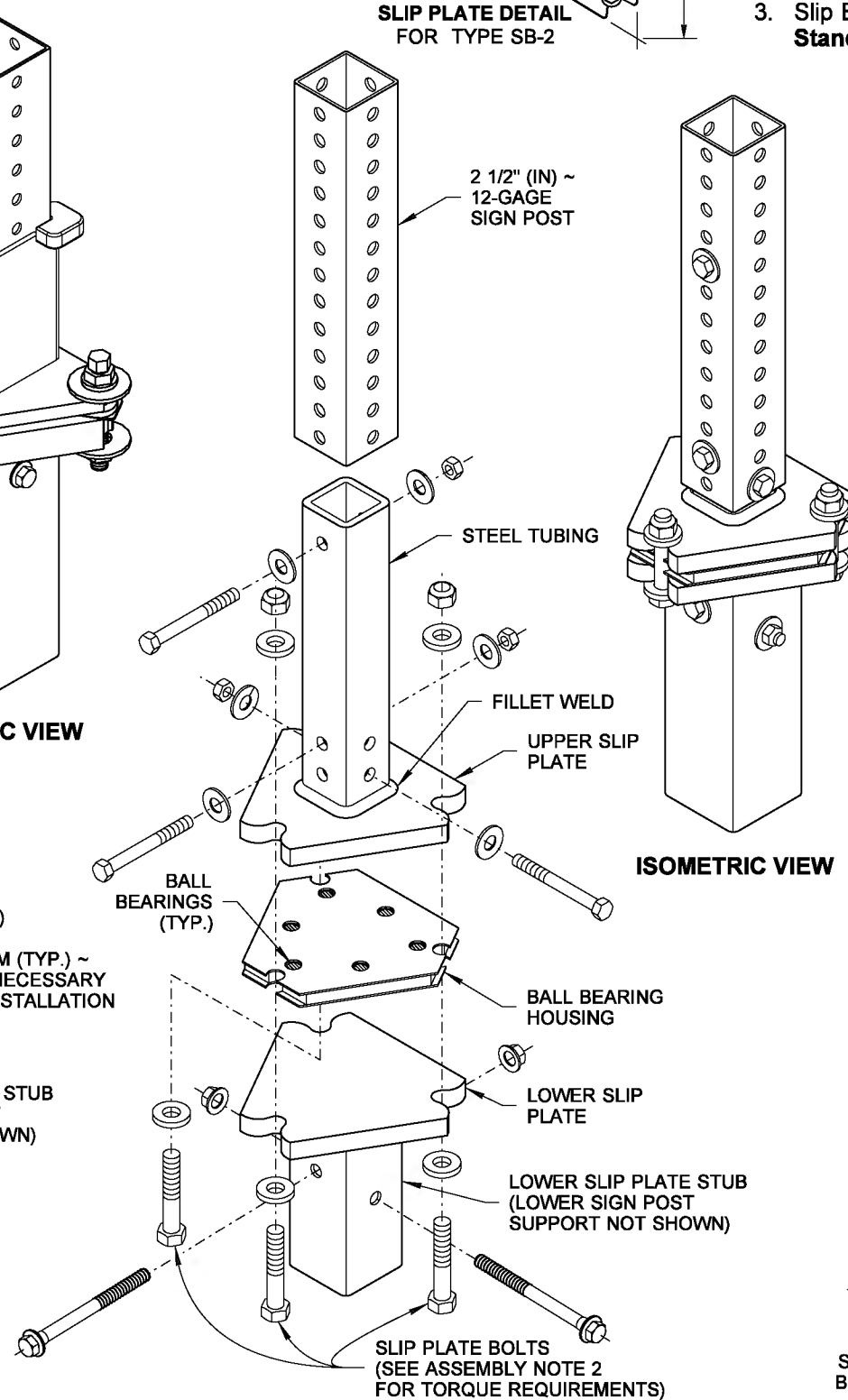
Washington State Department of Transportation

# ASSEMBLY NOTES

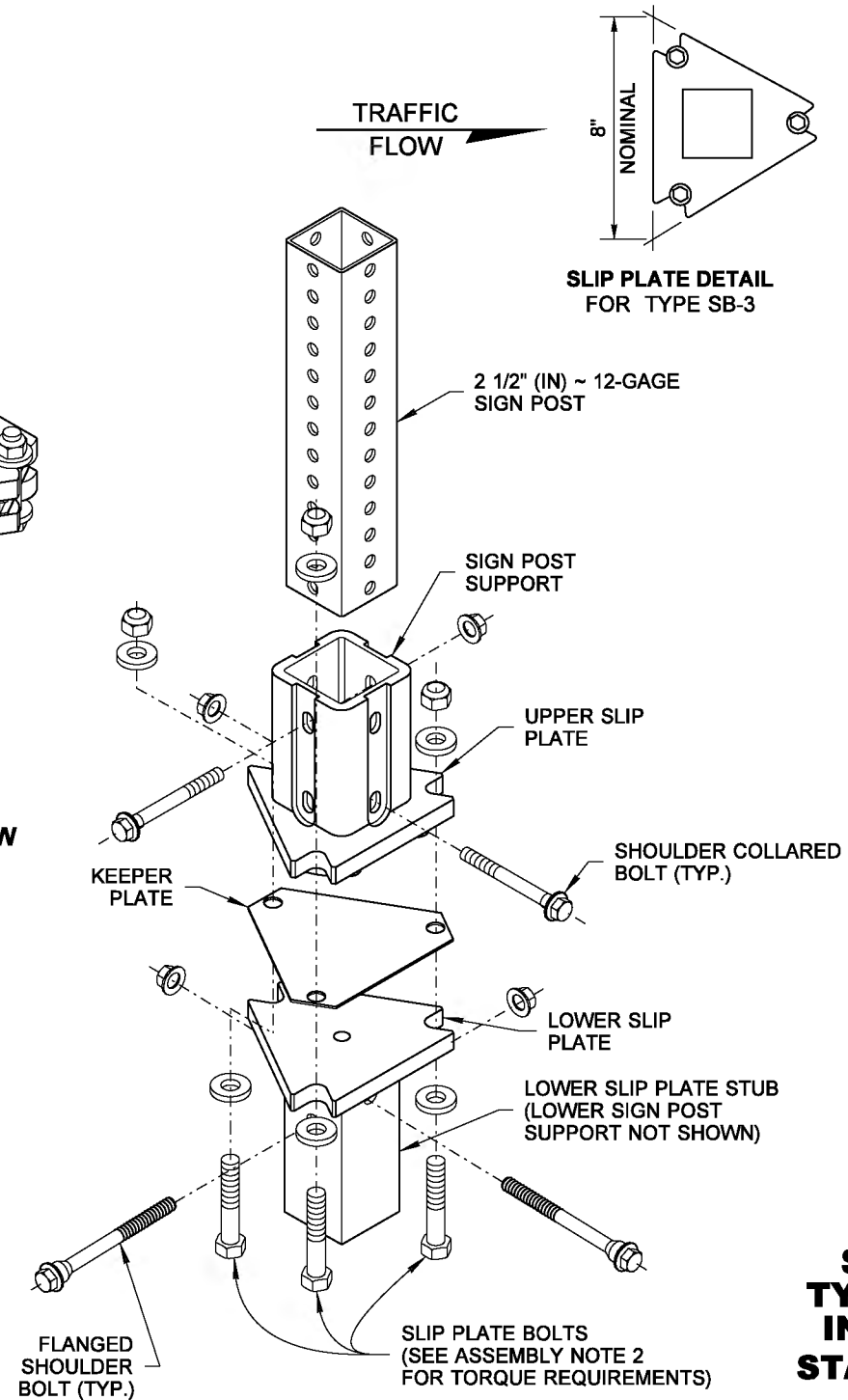
1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Slip Base assembly and all other materials shall meet the requirements of **Standard Specifications 9-06 and 9-28.**



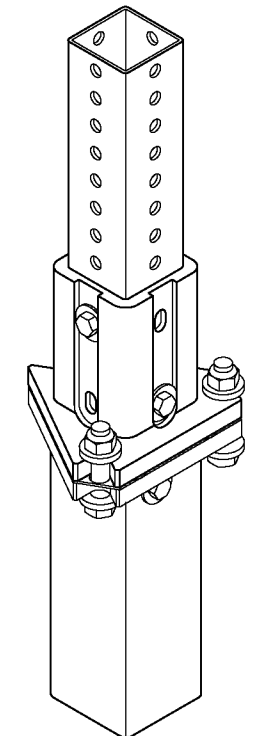
EXPLODED VIEW  
TYPE SB-1  
SLIP BASE ASSEMBLY



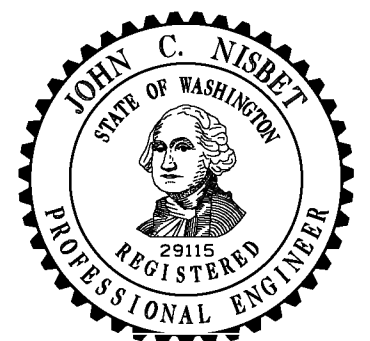
EXPLODED VIEW  
TYPE SB-2  
SLIP BASE ASSEMBLY



EXPLODED VIEW  
TYPE SB-3  
SLIP BASE ASSEMBLY



ISOMETRIC VIEW



## STEEL SIGN SUPPORT TYPES SB-1, SB-2 & SB-3 INSTALLATION DETAILS STANDARD PLAN G-24.40-06

SHEET 2 OF 4 SHEETS

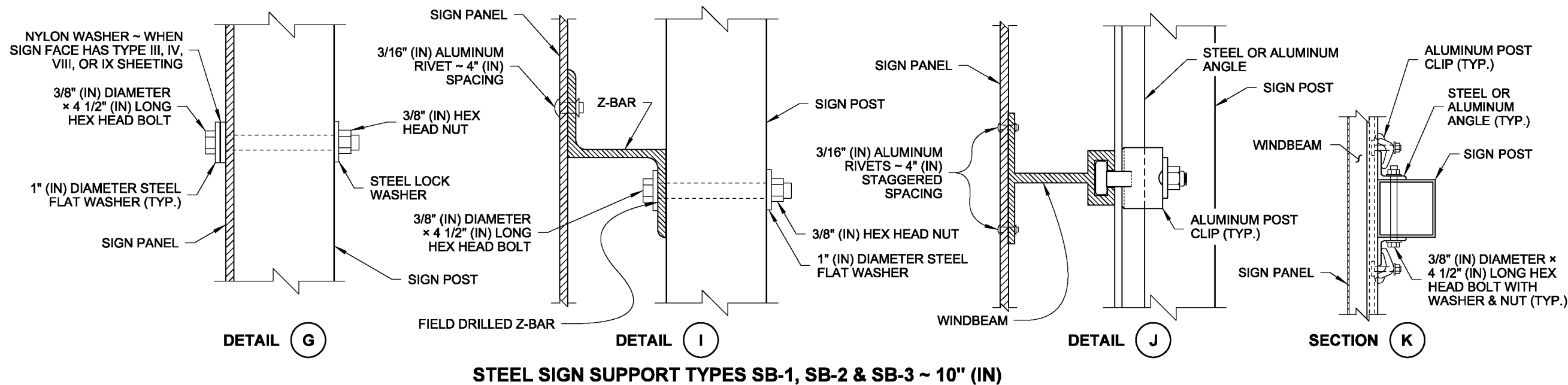
APPROVED FOR PUBLICATION

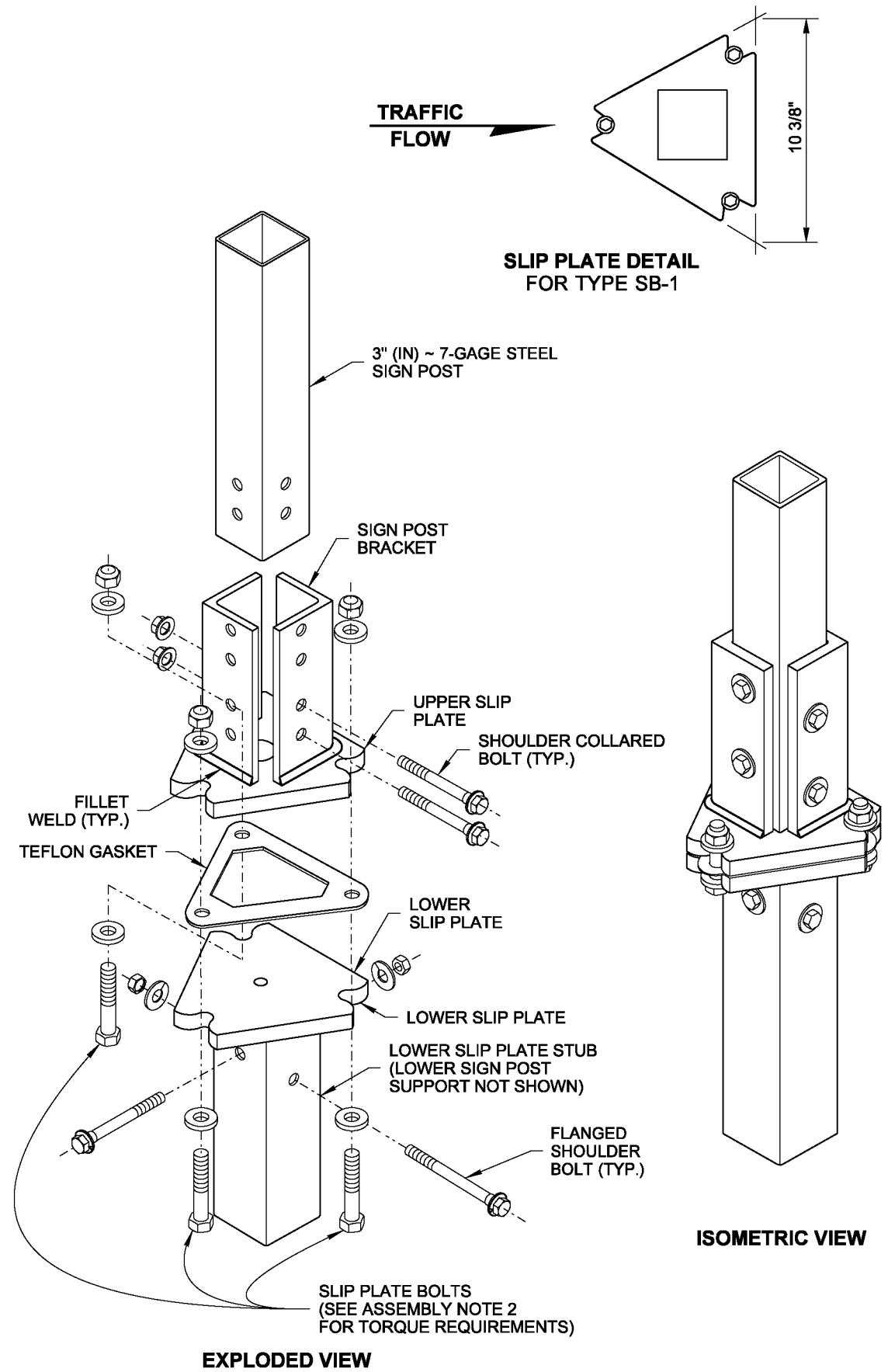
**ELEVATION**

Diagram illustrating the elevation view of a sign post assembly, showing dimensions and components:

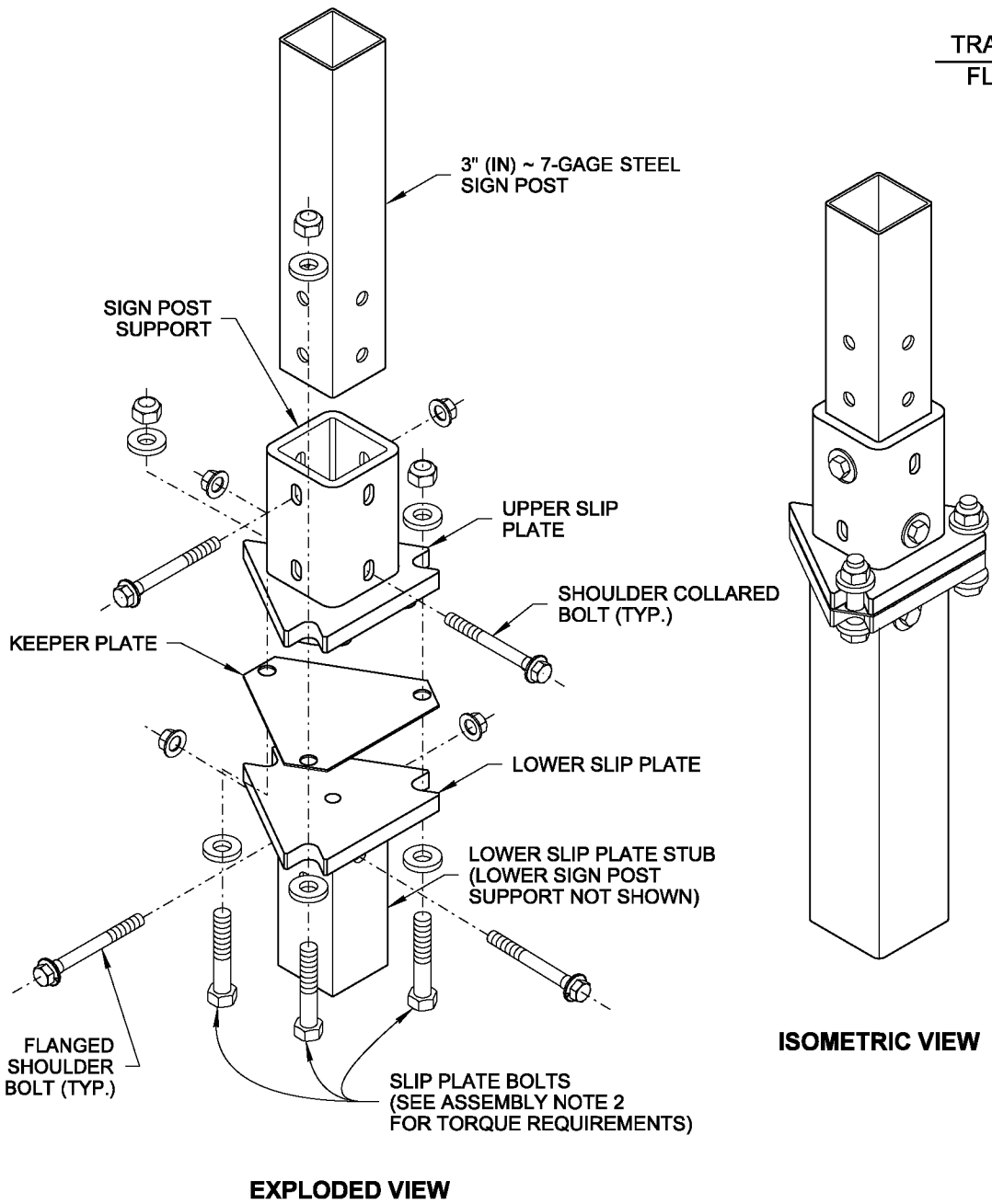
- Sign Panel:** Dimensions include a width of 5' - 0" MAX. and a height of 2" TO 3".
- Sign Post:** The post is labeled "H1" POST HEIGHT (SEE NOTE 2) and "SIGN POST 7-GAGE 5".
- Slip Base Assembly:** Located at the base of the post, with a dimension of 4" MAX. below the ground line.
- Lower Sign Post Support:** A 7-gage steel tube, 3" (IN) square, with a height of 44" - 46" and a 24" DIAMETER base.
- Commercial Concrete:** The base of the support, with a height of 6" and a 24" DIAMETER.
- Ground Line:** Labeled "FINISHED GROUND LINE".
- Sign Brace:** Labeled "SIGN BRACE, WHEN REQUIRED ~ SEE STD. PLAN G-50.10".
- Sign Panel:** Labeled "SIGN PANEL".
- Bottom of Sign:** Labeled "BOTTOM OF SIGN".
- Edge of Traveled Way:** Labeled "EDGE OF TRAVELED WAY".
- SEE STANDARD PLAN G-20.10:** Dimension of 7' - 0" MIN. from the ground line to the bottom of the sign.
- SEE NOTE 3:** Dimension of 11" from the ground line to the top of the slip base assembly.
- Directional Arrow:** Labeled "F" (Facing).

WINDLOAD FOR SQUARE TUBE POSTS AT 90 MPH				
POSTS		MAXIMUM XYZ		
		1-POST	2-POST	3-POST
* 3" SOLID POST	7-GAGE	471	942	1413
* SLIP BASE REQUIRED (UNLESS BEHIND BARRIER)				
(MAXIMUM 3 SLIP BASES ALLOWED IN 7' SPAN)				





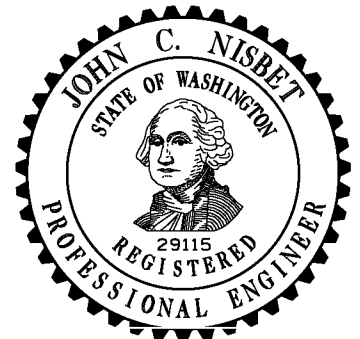
STEEL SIGN SUPPORT TYPES SB-1 & SB-3 ~ 10" (IN)



TYPE SB-3  
SLIP BASE ASSEMBLY

**ASSEMBLY NOTES**

1. Dimensions for the parts used to assemble the base connections are intentionally not shown. Base connections are patented, manufactured products that are in compliance with NCHRP 350 crash test criteria. The base connection details are shown on this plan only to illustrate how the parts are assembled.
2. Do not tighten any single Slip Plate Bolt to the recommended torque before pretightening the other bolts. Progressively tighten the three Slip Plate Bolts in 10 ft-lb increments, alternately, to a final torque of 40 ft-lbs on each.
3. Use only Slip Base manufacturer supplied hardware that meets the requirements of **Standard Specifications 9-06 and 9-28.**



**STEEL SIGN SUPPORT  
TYPES SB-1, SB-2 & SB-3  
INSTALLATION DETAILS  
STANDARD PLAN G-24.40-06**

SHEET 4 OF 4 SHEETS

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